FITLE: SEQUENCES FOR IMPROVING THE EFFICIENCY OF

SECRETION OF NON-SECRETED PROTEINS... [NVENTOR(S): IATROU, FARRELL & BEHIE

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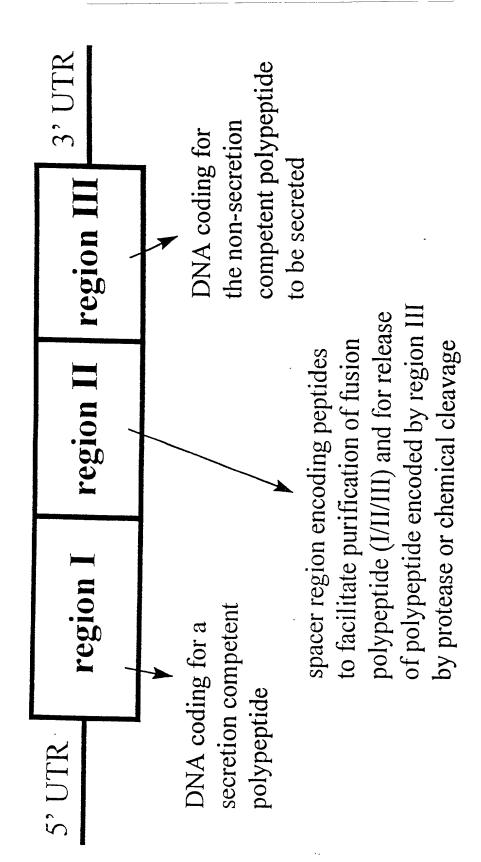


Figure 1

TITLE: SEQUENCES FOR IMPROVING THE EFFICIENCY OF

SECRETION OF NON-SECRETED PROTEINS...
INVENTOR(S): IATROU, FARRELL & BEHIE

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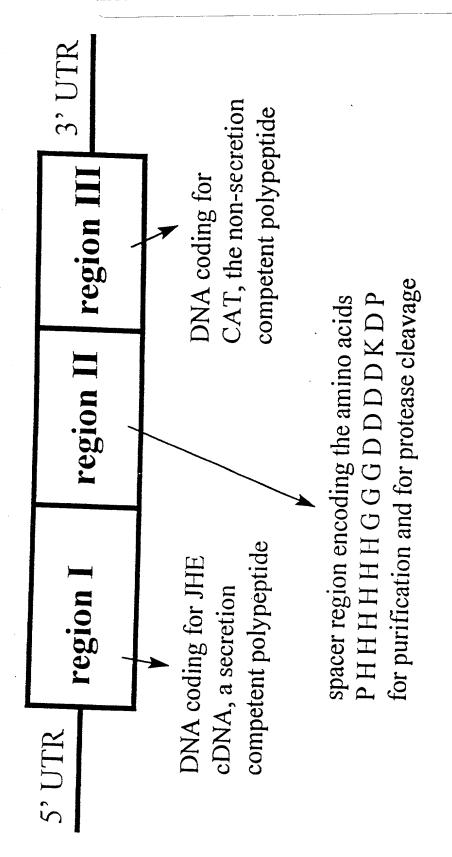


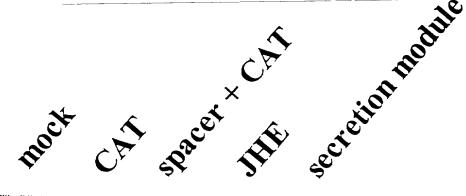
Figure 2a.

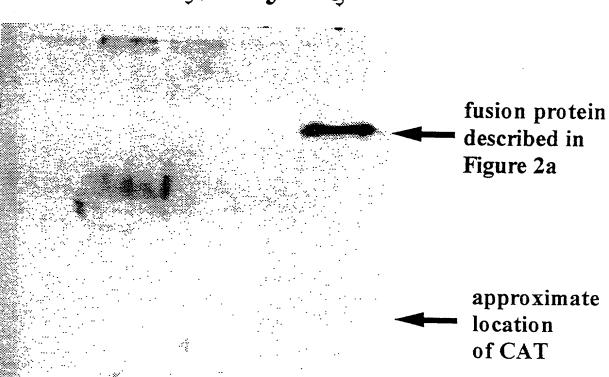
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0.02 mL of transfection supernatant per lane

Figure 2b

TITLE: SEQUENCES FOR IMPROVING THE EFFICIENCY OF

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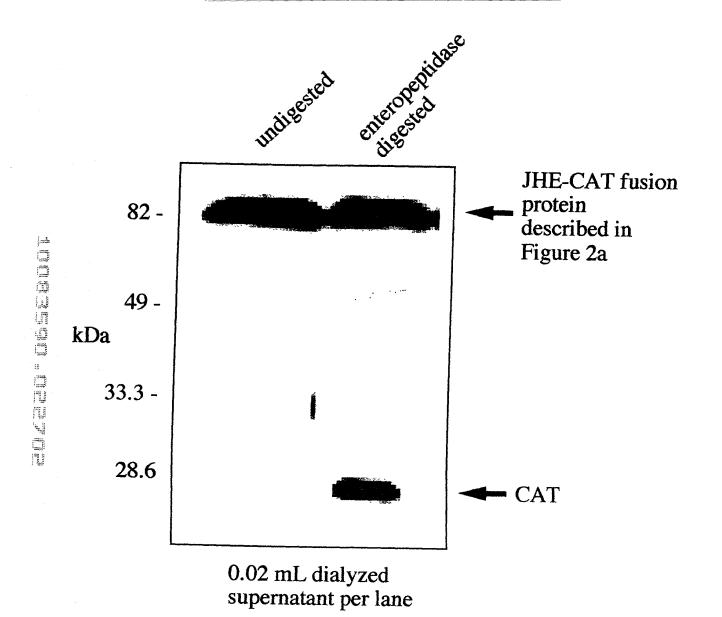


Figure 2c

TITLE: SEQUENCES FOR IMPROVING THE EFFICIENCY OF

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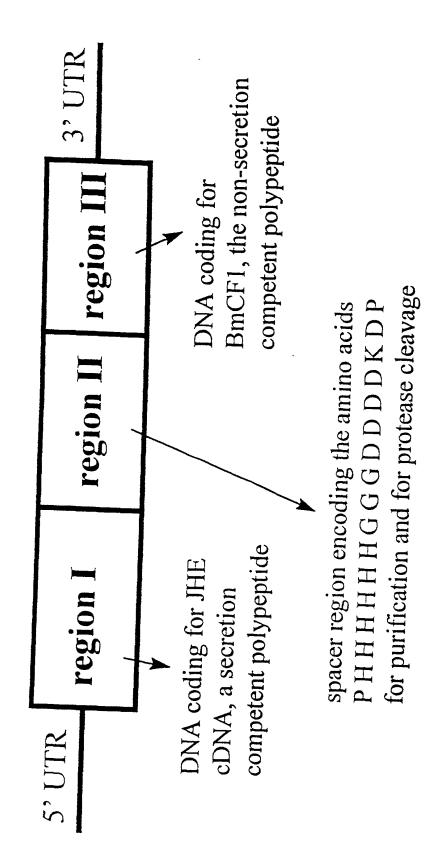
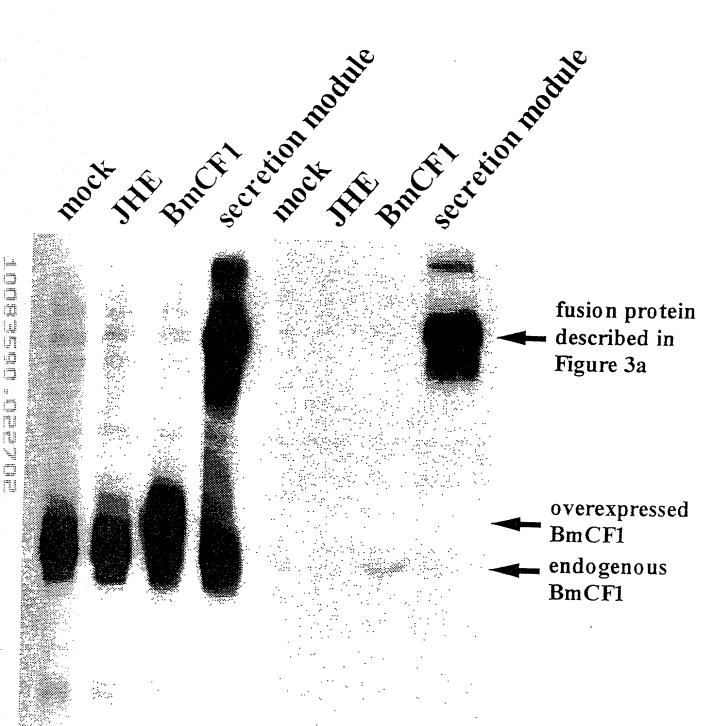


Figure 3a.

TITLE: SEQUENCES FOR IMPROVING THE EFFICIENCY OF

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50,000 cells per lane

0.02 mL transfection supernatant per lane

Figure 3b

TITLE: SEQUENCES FOR IMPROVING THE EFFICIENCY OF

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19	A TEACTTCACA CETACTCECE CTCECCTTCC				
51	TTCTACACGC	GTGCACAGCG	CIECCEIECC	AGGAGACAAA	TTCGCGCAGC
101	GIGGICGCCC	ATCTGGACTC	CGGCATTATA	CGCGGCGTGC	CGCGCTCAGC
151	GGATGGCATC	AAGTTCGCCA	GCTTCCTAGG	AGTGCCCTAC	GCTAAGCAGC
201	CTGTTGGAGA	ACTCAGGTTT	AAGGAGCTCG	AGCCTCTAGA	ACCTTGGGAT
251	AATATCCTGA	ACGCAACAAA	TGAAGGACCC	ATCTGCTTCC	AAACAGATGT
301	ATTATACGGG	AGGCTCATGG	CGGCAAGCGA	GATGAGCGAG	GCTTGCATAT
351	ACGCCAACAT	TCATGTTCCA	TGGCAAAGCC	TTCCCCGAGT	GAGGGGGACC
401	ACACCTTTAC	GGCCTATCCT	GGTGTTCATA	CATGGTGGAG	GATTTGCTTT
451	CGGCTCCGGC	CACGAGGACC	TACACGGACC	AGAATATTTG	GTCACTAAGA
501	ATGTCATCGT	CATCACGTTT	AATTACAGAT	TGAACGTCTT	CGGTTTCCTG
551	TCCATGAACA	CAACAAAAT	CCCCGGGAAT	GCCGGTCTCC	GGGATCAGGT
601	AACCCTGTTG	CGCTGGGTGC	AAAGGAACGC	CAAGAATTTC	GGAGGAGACC
651	CCAGCGACAT	CACCATAGCG	GGGCAGAGCG	CTGGTGCATC	AGCTGCGCAT
701	CTACTGACTC	TTTCTAAAGC	TACTGAAGGT	CTTTTCAAAA	GAGCGATTCT
751	GATGAGCGGA	ACAGGAATGA	GCTACTTCTT	TACTACTTCT	CCACTTTTCG
801	CGGCCTACAT	TTCGAAACAG	TTGTTGCAAA	TCCTGGGCAA	TCAACGAGAC
851	GGATCCGAAG	AAATACATCG	GCAGCTCATC	GACCTACCCG	CAGAGAAACT
901	GAACGAGGCT	AACGCCGTCC	TGATTGAACA	AATTGGCCTG	ACAACCTTCC
951	TCCCTATTGT	GGAATCCCÇA	CTACCTGGAG	TAACAACCAT	TATTGACGAT
1001	GATCCAGAAA	TCTTAATAGC	CGAAGGACGC	GGCAAGAATG	TTCCACTTTT
1051	AATAGGATTT	ACCAGCTCAG	AATGCGAGAC	TTTCCGCAAT	CGACTATTGA
1101	ACTITGATCT	CGTCAAAAAG	ATTCAGGACA	ATCCTACGAT	CATAATACCG
1151	CCTAAACTGT				
1201	GACTATCGAG	AGAAAGTACT	ACAACGGTAC	AATAAGTATC	GATAACITCG
1251	TAAAATCATG	TTCAGATGGC	TTCTATGAAT	ACCCIGCATI	GAAACTGGCG
1301	CAAAAACGTG	CCGAAACTGG	TGGAGCTCCA	CIGIACITGI	ACCGGTTCGC
1351	GTACGAGGGT	CAGAACAGCA	TCATCAAGAA	GGTAATGGGG	CTGAACCACG
1401	AGGGTGTCGG	CCACATTGAG	GACTTAACCT	ATGTGTTTAA	GGTCAACTCT
1451	ATGTCCGAAG	CTCTGCACGC	ATCGCCTTCT	GAGAATGATG	TGAAAATGAA
1501	GAATCTAATG	ACGGGCTATT	TCTTAAATTT	TATAAAGTGC	AGTCAACCGA
1551	CATGCGAAGA	CAATAACTCA	TIGGAGGIGI	GGCCGGCTAA	CAACGGCATG
1601	CAATACGAGG	ACATTGTGTC	TCCCACCATC	ATCAGATCCA	AGGAGTTCGC
1651	CTCCAGACAA	CAAGACATTA	TCGAGTTCTT	CGACAGCTIC	ACCAGTAGAA
1701	GCCCGCTTGA				

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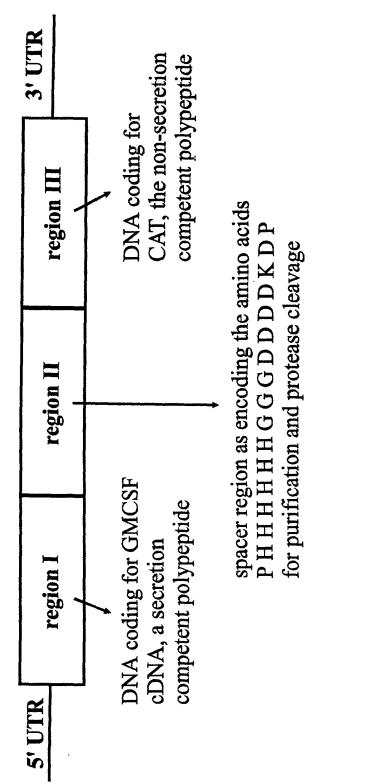


Figure 5.

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GMCSF cDNA Sequence

ATGTGGCT GCAGAGCCTG CTGCTCTTGG GCACTGTGGC CTGCAGCATC TCTGCACCCG
CCCGCTCGCC CAGCCCAGC ACGCAGCCCT GGGAGCATGT GAATGCCATC CAGGAGGCCC
GGCGTCTCCT GAACCTGAGT AGAGACACTG CTGCTGAGAT GAATGAAACA GTAGAAGTCA
TCTCAGAAAT GTTTGACCTC CAGGAGCCGA CCTGCCTACA GACCCGCCTG GAGCTGTACA
AGCAGGGCCT GCGGGGCAGC CTCACCAAGC TCAAGGGCCC CTTGACCATG ATGGCCAGCC
ACTACAAGCA GCACTGCCCT CCAACCCCGG AAACTTCCTG TGCAACCCAG ATTATCACCT
TTGAAAGTTT CAAAGAGAAC CTGAAGGACT TTCTGCTTGT CATCCCCTTT GACTGCGG
AGCCAGTCCA GGAGTGA

Figure 6

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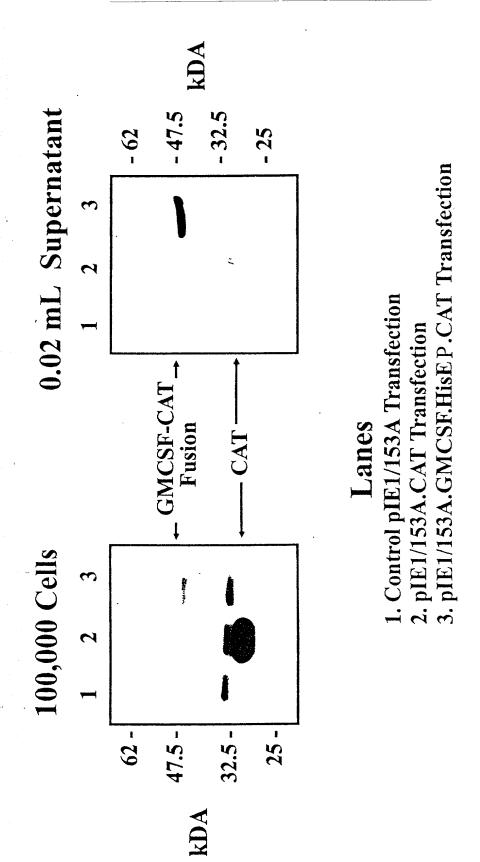


Figure 7